Rocks and Minerals Information Sources

November 1991

Ministry of
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and Mines

Ontario

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Please discard all previous issues of this publication as they are outdated.

Corrections or additional listings should be sent to:

Ministry of Northern Development and Mines
Geoscience Information Office
Ontario Geological Survey
8th floor, 77 Grenville Street
Toronto, ON, M7A 1W4
(416) 965-0190

Orders for publications should be accompanied by cheque or money order payable to the **Treasurer of Ontario.** Order from Natural Resources Information Centre, Ministry of Natural Resources, 1st Floor, Room M1-73, MacDonald Block, Queen's Park, 900 Bay Street, Toronto, ON, M7A 2C1

Prices and availability are subject to change without notice.

Cover: Collecting amethyst in the Thunder Bay area; photo courtesy of the Ontario Ministry of Tourism and Recreation.

Note: A 7% federal Goods and Services Tax (GST) applies to the purchase of publications. Please ensure it is added when paying for publications.

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Minister's Message

This 100th anniversary of the founding of the Ontario Bureau of Mines is a good time to look back at what we have accomplished in our efforts to unlock the earth's secrets.

Over the past century, the Ontario government has been studying Ontario's productive geology. The result is approximately 10,000 publications ranging from highly technical studies used by the mineral exploration industry to general interest books and brochures popular with teachers, students and rockhounds.

This treasure-trove of publications helps readers to better understand Ontario, a province that produces about two-thirds of Canada's nickel, uranium and salt, almost half its gold and cement, and a third of its sand-gravel aggregates and copper. In all, Ontario produces more than 30 different minerals, employing more than 80,000 men and women in the mining and related processing industries.

Minerals have played an essential role in our economic and social development during the past 100 years. The 1991 edition of Rocks and Minerals Information Sources will help you tap Ontario's rich mineral heritage.

Shelly Martel
Minister of Northern Development
and Mines

Contents

About "Rocks and Minerals Information Sources" 1
Ordering Publications 1

The Mines and Minerals Division 1
Introduction 1
The Ontario Geological Survey 1

Mines and Minerals Division Regional Offices 2

Mineral Development and Rehabilitation Branch 3
Mining Lands Branch 3
Planning and Information Office 3

Indexes to Reports and Maps 4
Ontario Ministry of Northern Development and Mines 4
Ontario Ministry of Agriculture and Food 4
Geological Survey of Canada 4

Sources of Air Photographs and Maps 5
Air Photographs 5
Transparencies Of Maps 5
Topographic Maps 5
Mining Claim Maps 6
Landsat Imagery 6

Selected Ontario Government Maps 6
Provincial Geology Maps 6
Precambrian Geology Maps 6
Paleozoic Geology Maps 7
Surficial (Quaternary) Geology Maps 7
Mineral Deposit Maps 7

Northern Ontario Index to Geological Compilation Series 8

Geophysical Maps 9
Oil and Gas Maps 9

Selected Geological Survey of Canada Maps 10
Canadian Geology Maps 10
Regional Bedrock Geology Maps 10
Structural and Metamorphic Maps 10
Mineral Deposit Maps 10
Surficial Geology Maps 10
Geophysical/Geochemical Maps 11

General Interest Publications by the Ontario Geological Survey 11
General Interest 11
Geology 11

Geology and Mineral Collecting Publications by the Geological Survey of Canada 12

Guidebooks 12
Ontario Geological Survey 12
Guidebooks-24th International Geological Congress, Montreal 1972 13
National Association of Geology Teachers 13

Ontario Government Mineral Commodity Reports 13
Metallic Minerals 13
Precious Metals 13
Iron 14
Base Metals 14
Uranium 14
Other Metallic Minerals 14
Area Reports 14
Industrial Minerals 14
General 14
Clay and Shale 15
Mica 15
Silica 15
Other Industrial Minerals 15
Building Stone 15
Peat 15
Area Reports 16
Aggregate 16
Pits and Quarries Rehabilitation 16
Aggregate Resources Inventory Papers 16
Oil and Gas 16

Ontario Government Mineral Policy and Statistics Publications 17
Mining and Rehabilitation Legislation 17
Mineral Pricing 17
Statistics 17

Energy, Mines and Resources, Canada—Mineral Resources Reports 17

Brochures and Films-Government 18
Ontario Ministry of Northern Development and Mines 18
Energy, Mines and Resources Canada 18
Ministère de L'Énergie et des Ressources du Québec 19
Royal Ontario Museum 19
Science North 20
Niagara Escarpment Commission 20
National Water Research Institute 20

Brochures and Films-Mining, Careers, and Metals 20
Mining 20
Careers 21
Aluminum 21
Copper 21
Copper and Zinc 21
Gold 21

Iron and Steel 22
Lead 22
Magnesium 22
Nickel 22
Uranium 22
Zinc and Lead 23

Brochures and Films-Industrial Commodities 23
Aggregate 23
Asbestos 24
Coal 24
Diamonds 24
Gypsum 24
Nepheline Syenite and Silica 24
Petroleum and Natural Gas 24
Portland Cement 25
Potash 25
Salt 25
Sand and Gravel 25

Rock and Mineral Specimens 25

Ontario Mineral and Lapidary Dealers 26
Dealers in Toronto and Vicinity 27

Geoscience Clubs in Ontario 28

Ontario Mineral and Fossil Exhibits 29

Earth Science Periodicals 30
Rockhounding 30
Geology 30

Bookstores 31

About "Rocks and Minerals Information Sources"

This booklet is published annually by the Ministry of Northern Development and Mines, Mines and Minerals Division, to assist our clients, from mining industry geoscientists to teachers and rockhounds, in finding convenient sources of information on the rocks and minerals of Ontario. As well as Ministry publications, this booklet identifies reports and maps available through the federal government; brochures and films on geology, mining, metals and careers; promotional material from mineral development companies; and general interest earth science periodicals. It also provides lists of mineral and lapidary dealers, geoscience clubs and museums with rock and mineral displays across Ontario.

The following map scales are used throughout this book:

1:31 680	1 inch to 1/2 mile
1:63 360	1 inch to 1 mile
1:126 720	1 inch to 2 miles
1:253 440	1 inch to 4 miles
1:1 013 760	1 inch to 16 miles
1:1 584 000	1 inch to 25 miles
1:7 603 200	1 inch to 120 miles
1:50 000	1 cm to 0.5 km
1:100 000	1 cm to 1 km
1:250 000	1 cm to 2.5 km
1:800 000	1 cm to 8 km
1:1 000 000	1 cm to 10 km
1:1 600 000	1 cm to 16 km
1:2 000 000	1 cm to 20 km
1:5 000 000	1 cm to 50 km

ORDERING PUBLICATIONS

To order Ontario Geological Survey publications contact:

Natural Resources Information Centre, Ministry of Natural Resources, 1st Floor, Room M1-73, Macdonald Block, Queen's Park, 900 Bay Street, Toronto, ON, M7A 2C1
(416) 314-1666.

Please make remittance payable to: Treasurer of Ontario. Payment must accompany order.

Out-of print publications may be viewed at your local library or at the Ministry's Resident Geologist Office to which the publications pertain, and are available on 42X reduction microfiche at $0.75 + tax from the Natural Resources Information Centre, Ministry of Natural Resources. Open file reports in microfiche format are $2.00 + tax.

To order Geological Survey of Canada publications contact:

Publications Office, Geological Survey of Canada, 601 Booth Street, Ottawa, ON, K1A 0E8
(613) 995-4342.

Please make remittance payable to: Receiver General of Canada.

VISA and Mastercard accepted.

NOTE: A 7% federal Goods and Services Tax (GST) applies to the purchase of publications. Please ensure it is added when paying for publications. Ontario residents please add 8% provincial sales tax to all map orders.

The Mines and Minerals Division

INTRODUCTION

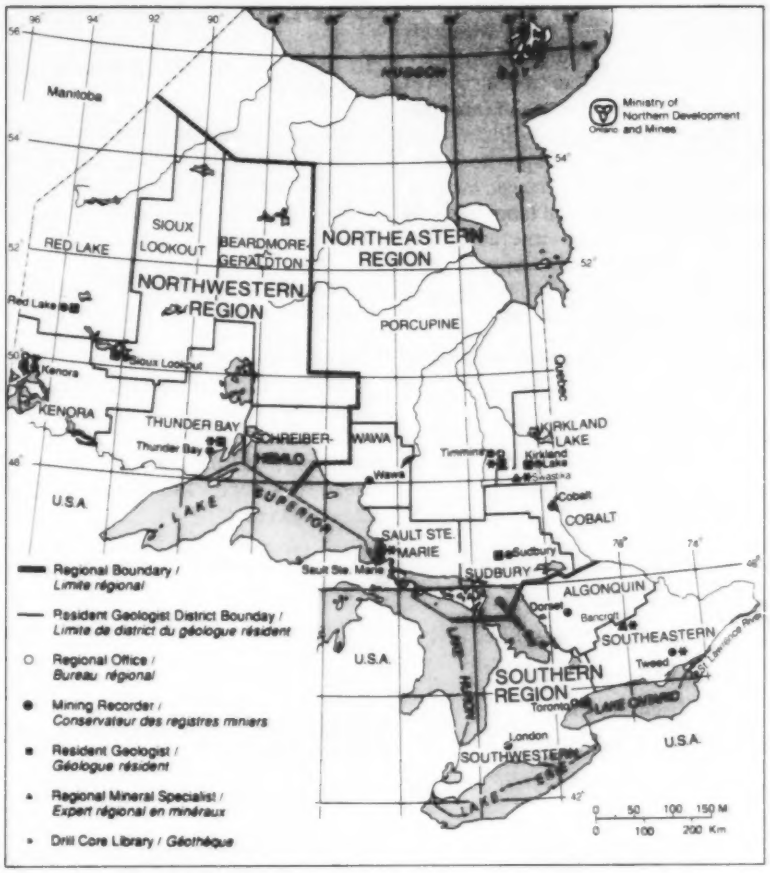
The Mines and Minerals Division of the Ministry of Northern Development and Mines provides a program of service to the mineral exploration and development industry, the general public and students through 17 office locations throughout Ontario. Co-operative programs between the Ontario Geological Survey, the Mineral Development and Rehabilitation Branch, the Mining Lands Branch, and the Planning and Information Office ensure that analysis and interpretation of the province's geology is carried out efficiently and that a variety of consultative services are provided.

THE ONTARIO GEOLOGICAL SURVEY

The Ontario Geological Survey (OGS), through its two branches, the Geoscience Branch and the Information Services Branch, provides information on the geology and mineral resources of Ontario.

The Geoscience Branch is responsible for collecting, researching and interpreting geoscientific information on provincial geology and mineral resources. This information is used to stimulate and guide mineral exploration and development and to plan and develop provincial land and water resources. Areas of research

Mines and Minerals Division Regional Offices



CITY *VILLE*	OFFICE(S) *BUREAU(X)*	ADDRESS *ADRESSE*	TELEPHONE *TÉLÉPHONE*	FAX *TÉLÉCOPIEUR*
Kenora	○	Box 5050, 12 Main St. S. P9N 3X9	(807) 468-3135	(807) 468-6298
	●	Box 5200, 808 Robertson St. P9N 3X9	(807) 468-3658	(807) 468-9451
	■	Box 5200, 808 Robertson St. P9N 3X9	(807) 468-8492	(807) 468-9451
	✱	860 Fourth Ave. S. P9N 2A1	(807) 468-3658	---
Red Lake	●	Box 324, Ont. Govt. Bldg. P0V 2M0	(807) 727-3272	(807) 727-3553
	■	Box 324, Ont. Govt. Bldg. P0V 2M0	(807) 727-3284	(870) 727-3553
Sioux Lookout	●	Box 3000, OPP Bldg. P0V 2T0	(807) 737-2039	(807) 737-1727
	■	Box 3000, OPP Bldg. P0V 2T0	(807) 737-2034	(807) 737-1727
Thunder Bay	● (3)	435 James St. S. P7E 6E3	(807) 475-1331	(807) 475-5312
	■	435 James St. S. P7E 6E3	(807) 475-1311	(807) 475-5312
	✱	335 Euclid Ave. P7E 6G6	(807) 475-1331	---
Wawa	●	Box 530, Mine Rd. P0S 1K0	(705) 856-4883	(705) 856-4282
Sault Ste. Marie	● ■	875 Queen St. E. P6A 2B3	(705) 949-1231	(705) 949-0014
	✱	64 Church St. P6A 5L5	(705) 949-1231	---
Timmins	○ ● ■	60 Wilson Ave. P4N 2S7	(705) 267-1401	(705) 264-8723
	✱	896 Riverside Dr. P4N 3W2	(705) 267-1401	---
Kirkland Lake	●	4 Government Rd. E. P2N 1A2	(705) 567-5242	(705) 567-5621
	■	4 Government Rd. E. P2N 1A2	(705) 567-9242	(705) 567-5621
Swastika	▲ ✱	Box 129 P0K 1T0	(705) 642-3222	(705) 642-3323
Cobalt	●	Box 230, Presley St. P0J 1C0	(705) 679-8558	(705) 679-5584
Sudbury	●	2nd floor, 159 Cedar St. P3E 6A5	(705) 670-7325	(705) 670-7223
	■	2nd floor, 159 Cedar St. P3E 6A5	(705) 670-7321	(705) 670-7223
Dorset	●	Box 190 P0A 1E0	(705) 766-2494	(705) 766-9976
Tweed	● ✱	R.S. 43, Old Troy Rd. K0K 3J0	(613) 478-2330	(613) 478-6247
Bancroft	▲ ✱	Box 3000, Highway 28 K0L 1C0	(613) 332-4875	(613) 332-1800
Toronto	■	1st floor, 10 Wellesley St. E. M4Y 1G2	(416) 965-1322	(416) 963-0257
	○	1st floor, 10 Wellesley St. E. M4Y 1G2	(416) 965-3611	(416) 963-0257
London	●	Box 5463, 659 Exeter Rd. N6A 4L6	(519) 661-2773	(519) 661-2819

include Precambrian, Paleozoic, and surficial geology; geophysics and geochemistry. The branch also provides geoscience laboratory services.

The Information Services Branch provides geological advisory and information services on geoscience, exploration and mineral resources planning, to attract, stimulate, guide and monitor mineral exploration and development, and increase public awareness of Ontario's geology and mineral resources. The branch administers a technical publication and distribution service. Geoscience publications include coloured final maps, uncoloured preliminary maps, folios of exploration data (GDIFs), quick-release print-on-demand reports (OFRs), and a wide variety of final reports, brochures and booklets. The branch also manages a reference and assessment work library and administers field services through the Toronto Client Services office, 15 Resident Geologists offices and 7 Drill Core Libraries. Staff of the Toronto Client Services and Resident Geologists offices are available to answer general inquiries and provide information to the mining industry and public on a wide spectrum of subjects, from the Ontario Government's mineral policies and Ministry services, to background information on mining and geology for school projects. The Drill Core Libraries, some capable of storing up to 160 000 metres of diamond drill core, provide a permanent record of local subsurface geology available for examination by exploration companies.

For further information on services or publications contact: **Geoscience Information Office, Ontario Geological Survey, 8th floor, 77 Grenville St., Toronto, ON, M7A 1W4 (416) 965-0190**

MINERAL DEVELOPMENT AND REHABILITATION BRANCH

This branch promotes and facilitates the sustained economic development of Ontario's mineral resources. Assistance is provided with development, promotion and marketing of Ontario mineral commodities.

Financial incentives are provided to prospectors and exploration companies in order to further the development of mineral resources through two programs, the Ontario Prospectors Assistance Program (OPAP) and the Ontario Mineral Incentives Program (OMIP).

Legislation and regulations are enforced to ensure that mine sites are planned, developed, decommissioned and closed in an environmentally responsible and safe manner.

For further information on services contact: **Mineral Development and Rehabilitation Branch, 4th floor, 159 Cedar Street, Sudbury, ON, P3E 6A5 (705) 670-7250; toll-free 1-800-465-3880**

MINING LANDS BRANCH

This branch contributes to the development of legislation and policies regarding mineral rights on crown lands.

Over-the-counter services are provided by a network of nine Mining Recorder offices. The Mining Recorder offices sell prospectors licences, claim tags, claim maps and publications which pertain to their area, and answer inquiries about mining leases and acquiring mineral rights and title. They also accept applications to record mining claims and have the responsibility for deciding conflicts between individuals claiming title to the same piece of ground.

For further information on services or publications contact: **Mining Lands Branch, 4th floor, 159 Cedar Street, Sudbury ON, P3E 6A5 (705) 670-7250; toll-free 1-800-465-3880**

PLANNING AND INFORMATION OFFICE

This office maintains a comprehensive database on the Ontario mining industry and tracks mineral and exploration trends. Their publication SCORE provides statistical information on all mineral commodities and trends in Ontario.

Trends are analyzed to identify potential mineral-related issues for the Ontario government and the mining industry.

For further information on services or statistical publications contact: **Planning and Information Office, 4th floor, 159 Cedar Street, Sudbury, ON, P3E 6A5 (705) 670-7250; toll-free 1-800-465-3880**

Indexes to Reports and Maps

Geological reports and maps can be quickly located by reference to indexes and index maps indicating the areas covered by such publications.

ONTARIO MINISTRY OF NORTHERN DEVELOPMENT AND MINES

Order from: Natural Resources Information Centre, Ministry of Natural Resources, 1st Floor, Room M1-73, Macdonald Block, Queen's Park, 900 Bay Street, Toronto, ON, M7A 2C1
(416) 314-1666

Please make remittance payable to: Treasurer of Ontario. Payment must accompany order.

INDEX TO PUBLISHED REPORTS AND MAPS, 1891-1977, Miscellaneous Paper 77. Price $8.00.
A complete listing of all Ontario Geological Survey and Mineral Development and Lands Branch reports referenced by author, township, district, and National Topographic System (N.T.S.) grid.

INDEX TO PUBLISHED REPORTS AND MAPS, 1978-1986, Supplement to Miscellaneous Paper 77. Price $8.00.

INDEX TO PUBLISHED REPORTS AND MAPS, 1987, Supplement to Miscellaneous Paper 77. Price $8.00.

HOW TO FIND REPORTS AND MAPS-YOUR GUIDE TO MP 77, Free.

GENERAL INDEXES TO REPORTS, Volumes 8 and 9, $5.00 each.

PUBLICATIONS PRICE LIST, April 1991. Price $0.93.

INDEX TO GEOCHEMICAL SERIES MAPS (P.Number and 80 000 Map series categories), 1989, Price $4.00.

INDEX TO GEOLOGICAL DATA INVENTORY FOLIOS, NORTHWESTERN REGION, 1989, Free.

INDEX TO AEROMAGNETIC MAPS, Map 2229, Free.

INDEX TO GEOLOGICAL DATA INVENTORY FOLIOS, NORTHEASTERN REGION, 1989, Free.

INDEX TO GEOLOGICAL DATA INVENTORY FOLIOS, SOUTHERN REGION, 1989, Free.

INDEX TO QUATERNARY GEOLOGY OF ONTARIO, 1990, Free.

INDEX TO AGGREGATE RESOURCES INVENTORY PUBLICATIONS, 1991, Free.

INDEX TO NORTHERN ONTARIO ENGINEERING GEOLOGY TERRAIN STUDIES and INDEX TO SOUTHERN ONTARIO ENGINEERING GEOLOGY TERRAIN STUDIES available from: Engineering and Terrain Geology Section, Ontario Geological Survey, Mail Bag 3000, 6th Floor, 200 Brady Street, Sudbury, ON, P3A 5W2, (705) 675-4441. Free.

INDEX TO AIRBORNE ELECTROMAGNETIC AND MAGNETIC SURVEYS IN ONTARIO, Open File Report 5765 available from: Astley-Gilbert Reproductions Ltd., 42 Carnforth Rd., Toronto, ON, M4A 2K7, (416) 288-8666, Attention Wayne Wilbur. Price $5.35 + tax.

ONTARIO MINISTRY OF AGRICULTURE AND FOOD

Order From: Consumer Information Centre, Ontario Ministry of Agriculture and Food, Main floor, 801 Bay Street, Toronto, ON, M7A 2B2
(416) 326-3400

Soil maps are available that show soil classification, topographic, stoniness and rock classes at a scale of 1:63 360. A free Index of Soil Surveys in Ontario is temporarily out of print.

GEOLOGICAL SURVEY OF CANADA

Order From: Publications Office, Geological Survey of Canada, 601 Booth Street, Ottawa, ON, K1A 0E8
(613) 995-4342

Please make remittance payable to: Receiver General of Canada.

VISA and Mastercard accepted.

Note: Prices for publications of the Geological Survey of Canada are 20% higher than those listed when ordered from outside Canada.

INDEX TO PUBLICATIONS OF THE GEOLOGICAL SURVEY OF CANADA 1959-1974. Price $7.00.

INDEX TO PUBLICATIONS OF THE GEOLOGICAL SURVEY OF CANADA 1975-1979. Price $3.50.

INDEX TO PUBLICATIONS OF THE GEOLOGICAL SURVEY OF CANADA 1980-1984. Price $10.00.

INDEX TO PUBLICATIONS OF THE GEOLOGICAL SURVEY OF CANADA 1984-1987. Price $12.00.

PRICE LIST OF REPORTS AND MAPS OF GENERAL INTEREST, 1989, Free.

PRICE LIST OF REPORTS FOR EASTERN CANADA, 1989, Free.

INDEX SHEETS outlining areas of geological studies in Ontario are available free of charge from the Geological Survey of Canada as follows:

Index Sheet	Latitudes	Longitudes
30,40	42°-46°N	75°-83°W
31	44°-48°N	72°-80°W
32	48°-52°N	72°-80°W
41	44°-48°N	80°-88°W
42	48°-52°N	80°-88°W
52	48°-52°N	88°-96°W
43	52°-56°N	80°-88°W
53	52°-56°N	88°-96°W

Sources of Air Photographs and Maps

AIR PHOTOGRAPHS

Air photographs are a very useful prospecting tool to locate yourself in the field; to locate areas of outcrop; to locate structural features such as faults, folds, and dikes; to locate areas of glacial deposits; or to obtain an approximation of the rock types present.

Order from: 1-Natural Resources Information Centre, Air Photo Unit, Ontario Ministry of Natural Resources, Room M1-73, Macdonald Block, Queen's Park, 900 Bay Street, Toronto, ON, M7A 2C1
(416) 314-2001

This outlet sells air photos for Ontario only. Coverage is not available north of latitude 53°N. Photographs are $3.85 each plus $2.00 handling charge if mailed. Ontario residents add 8% provincial sales tax.

Order from: 2-The National Air Photo Library, Energy, Mines and Resources Canada, 615 Booth Street, Ottawa, ON, K1A 0E9
tel (613) 995-4560
FAX (613) 995-4568

Please make remittance payable to: Receiver General of Canada.

VISA and Mastercard accepted.

This outlet sells air photos of most parts of Canada at various scales. Black and white $4.55, colour $10.45, plus provincial sales tax and $4.00 handling charge.

Air photos may be obtained from the above sources by identifying the area of photographic coverage required as to lot, concession, township, and district, or by sending in a map with the area clearly outlined. Indicate whether stereoscopic coverage is required. You will be advised of the cost before the photos are sent. There is considerable overlap between adjacent photographs for stereoscopic coverage. If stereoscopic coverage is not required, the number of photos can be reduced by about 50%. However, stereoscopic coverage is useful; with the aid of a stereoscope, a three dimensional picture of the ground surface can be seen. Retailers sell pocket stereoscopes from $15.00 to $50.00.

TRANSPARENCIES OF MAPS

Colour transparencies may be ordered of any map distributed by the Canada Map Office. These transparencies have a 24 X 18 cm image ideally suited for use with an overhead projector. Cost is $22.05 for the first transparency, and $10.55 for each subsequent transparency of the same map. Please add provincial sales tax. A $2.00 handling charge is applied to each order, regardless of the number of transparencies ordered.

Order from: Canada Map Office, 615 Booth Street, Ottawa, ON, K1A 0E9
tel (613) 952-7000
FAX (613) 957-8861

Please make remittance payable to: Receiver General of Canada.

VISA and Mastercard accepted.

TOPOGRAPHIC MAPS

Order from: 1-Topographic Maps, Canada Map Office, 615 Booth Street, Ottawa, ON, K1A 0E9
tel (613) 952-7000
FAX (613) 957-8861

Please make remittance payable to: Receiver General of Canada.

VISA and Mastercard accepted.

Topographic maps are a prerequisite for any prospecting venture. "Topo" maps are available at the following scales:

1:250 000 - coverage of all Ontario

1:50 000 - coverage over much of Ontario

Each map sheet costs $7.05. Ontario residents add 8% provincial sales tax. Index maps for the above scales are free on request.

Order from: 2-Natural Resources Information Centre, Ontario Ministry of Natural Resources, 1st Floor, Room M1-73, Macdonald Block, Queen's Park, 900 Bay Street, Toronto, ON, M7A 2C1
(416) 314-1666

PROVINCIAL TERRITORIAL SERIES, 1:600 000 scale, Price $2.80 + tax for each of the 6 Northern Ontario map sheets and $3.55 + tax for the Southern Ontario Sheet.

PROVINCIAL SERIES, 1:126 720 and 1:100 000 scales, Price $2.80 + tax each. Maps exist for Ontario between latitudes 46ºN and 51ºN.

ONTARIO BASIC MAPPING SERIES, 1:10 000 and 1:20 000 scales, Price $3.65 + tax each. These detailed maps are available for many areas of Ontario.

Topographic maps are also available from local map dealers. Check the telephone directory under Maps.

MINING CLAIM MAPS

Order from: Crown Land Registry, Land and Resource Information Branch, Ontario Ministry of Natural Resources, 5th Floor, 90 Sheppard Ave. E, North York, ON, M2N 3A1
(416) 314-1396

Claim maps, by geographic township or area, identify crown land which is open for staking, and patented land. These black and white maps may be examined at, or purchased at the address above. Maps are $1.00 + tax.

LANDSAT IMAGERY

LANDSAT imagery is available for all of Canada. For information on ordering, contact: Radarsat International, 13 800 Commerce Parkway, Richmond, BC, V6V 2J7,
tel: (604) 244-0400
FAX: (604) 244-0404

A 35 mm slide collection of selected LANDSAT scenes covering the landmass of Canada exists. These scenes give, as much as possible, a cloud- and snow-free picture of the country. For more information on ordering the slide collection, contact: National Air Photo Library, Energy, Mines and Resources Canada, 615 Booth Street, Ottawa, ON, K1A 0E9.
(613) 995-4560

Canada Centre for Remote Sensing (CCRS), Energy, Mines and Resources, Canada, Ottawa, ON, K1A 0Y7
(613) 952-2717

REMOTE SENSING AND GEOLOGY, free brochure produced by CCRS

CCRS provides general information on request.

Selected Ontario Government Maps

Order from: Natural Resources Information Centre, Ministry of Natural Resources, 1st Floor, Room M1-73, Macdonald Block, Queen's Park, 900 Bay Street, Toronto, ON, M7A 2C1
(416) 314-1666

Please make remittance payable to: Treasurer of Ontario.

Note: Ontario residents add 8% provincial sales tax to total map order.

COLOUR MAPS, PRELIMINARY MAPS, GEOPHYSICAL/GEOCHEMICAL MAPS and GEOLOGICAL DATA INVENTORY FOLIOS covering much of the province, can be searched for using the Miscellaneous Paper 77 indexes listed on page 4. Following are a few maps of general interest.

PROVINCIAL GEOLOGY MAPS

BEDROCK GEOLOGY OF ONTARIO, scale 1:1 000 000. Price $4.00 per sheet + tax.

Map 2541-Northern Sheet, 1991

Map 2542-West-Central Sheet, 1991

Map 2543-East-Central Sheet, 1991

Map 2544-Southern Sheet, 1991

Map 2545-Explanatory Notes and Legend, 1991

These maps are available as a set for $15.00 + tax.

GEOLOGICAL HIGHWAY MAP, NORTHERN ONTARIO, Map 2506, scale 1:1 600 000, bilingual. Price $4.00 + tax.

PRECAMBRIAN GEOLOGY MAPS

ABITIBI SUBPROVINCE-LITHOSTRATIGRAPHIC MAP, Map 2484, scale 1:500 000, bilingual. Price $6.00 + tax

BURNTBUSH-DETOUR LAKES AREA, Map 2453, scale 1:100 000. Price $4.00 + tax.

BURWASH AREA, Map 2271, scale 1:126 720. Price $4.00 + tax.

COBALT SILVER AREA, scale 1:12 000. Price $4.00 per sheet + tax.

Map 2050-Northern Sheet

Map 2051-Southwestern Sheet

Map 2052-Southeastern Sheet

CONFEDERATION LAKE AREA, Map 2498, scale 1:50 000. Price $4.00 + tax.

HALIBURTON-BANCROFT AREA, Map 1957b, scale 1:126 720. Price $3.00 + tax.

HEMLO AREA, Map 2452, scale 1:31 680. Price $4.00 + tax.

NORTH BAY AREA, Map 2216, scale 1:126 720. Price $4.00 + tax.

PEMBROKE Map 2459, COBDEN Map 2460, BARRY'S BAY Map 2461, RENFREW Map 2462, set only, scale 1:100 000. Price $12.00 + tax.

RED LAKE AREA (west sheet), reprint, Map 49a, scale 1:31 680. Price $4.00 + tax.

RED LAKE AREA (east sheet), reprint, Map 49b, scale 1:31 680. Price $4.00 + tax.

SUDBURY GEOLOGICAL COMPILATION, Map 2491, scale 1:50 000. Price $4.00 + tax.

SUDBURY-MANITOULIN AREA, Map 2360, scale 1:126 720. Price $4.00 + tax.

TIMMINS AREA, Map 2455, scale 1:50 000. Price $4.00 + tax.

PALEOZOIC GEOLOGY MAPS

SOUTHERN ONTARIO, Map 2254, Scale 1:1 013 760. Price $4.00 + tax.

BOLTON, Map 2338, scale 1:50 000. Price $4.00 + tax.

BRAMPTON, Map 2337, scale 1:50 000. Price $4.00 + tax.

COLLINGWOOD, Map 2341, scale 1:50 000. Price $4.00 + tax.

DUNDALK, Map 2340, scale 1:50 000. Price $4.00 + tax.

GRIMSBY, Map 2343, scale 1:50 000. Price $4.00 + tax.

GUELPH, Map 2342, scale 1:50 000. Price $4.00 + tax.

HAMILTON, Map 2336, scale 1:50 000. Price $4.00 + tax.

NIAGARA, Map 2344, scale 1:50 000. Price $4.00 + tax.

ORANGEVILLE, Map 2339, scale 1:50 000. Price $4.00 + tax.

SURFICIAL (QUATERNARY) GEOLOGY MAPS

QUATERNARY GEOLOGY OF ONTARIO, scale 1:1 000 000. Price $4.00 per sheet plus tax.

Map 2553 Northern Sheet, 1991

Map 2554 West-Central Sheet, 1991

Map 2555 East-Central Sheet, 199

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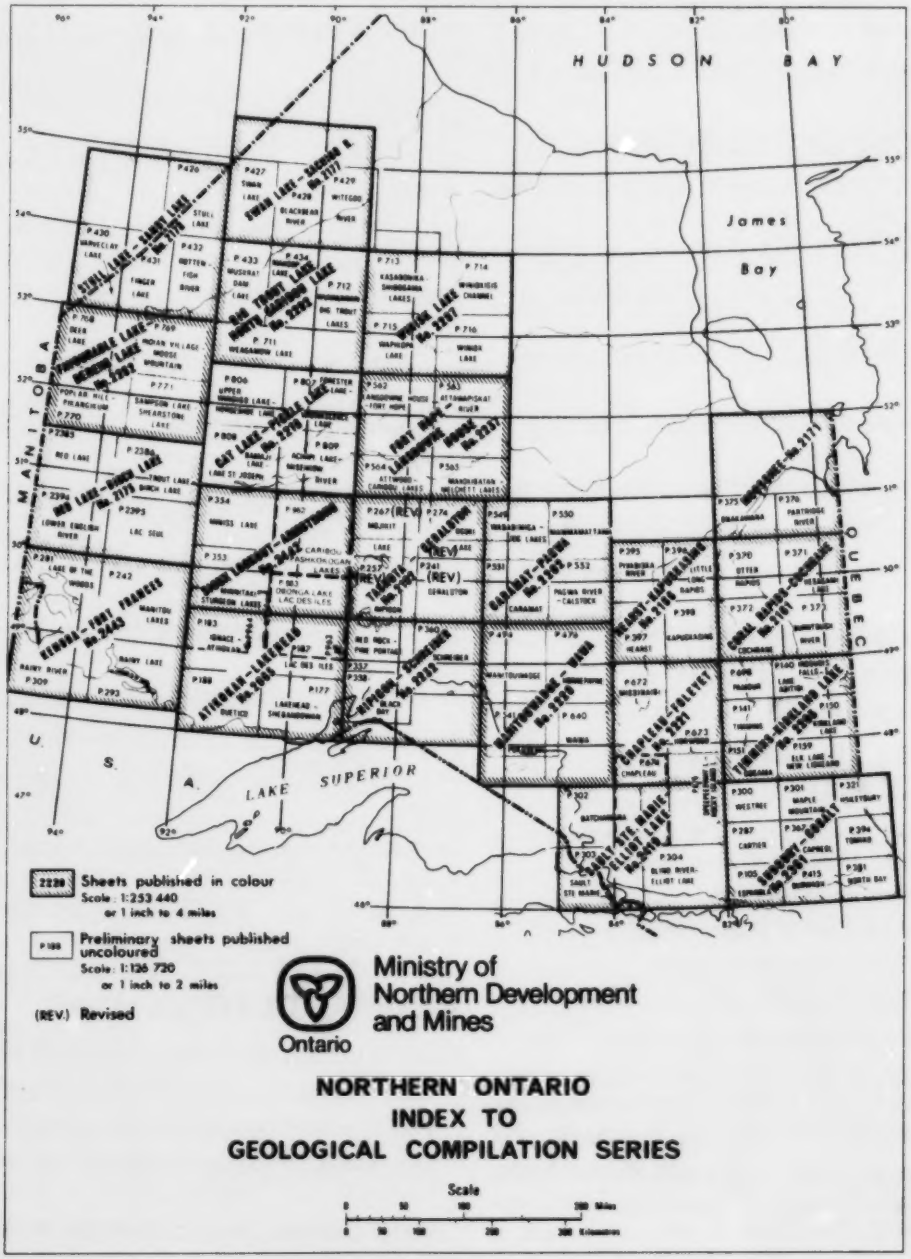

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Sources d'information sur les roches et les minéraux

novembre 1991

Ministère du
Développement du Nord
et des Mines
Ontario

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On est prié de détruire toutes les éditions précédentes de cette publication, étant donné qu'elles sont périmées.

Addresser toute correction ou demande d'insertion de renseignements supplémentaires au:

Ministère du Développement du Nord et des Mines
Bureau d'information géoscientifique
Commission géologique de l'Ontario
8e étage, 77, rue Grenville
Toronto (Ontario) M7A 1W4
(416) 965-0190

Joindre à toute commande de publications un chèque ou mandat à l'ordre du trésorier de l'Ontario. Envoyer les commandes au Centre d'information, ministère des Richesses naturelles de l'Ontario, 1er étage, Bureau M1-73, édifice Macdonald, Queen's Park, 900, rue Bay, Toronto (Ontario) M7A 2C1.

Les prix et la liste des ouvrages en vente peuvent être modifiés sans préavis.

En couverture: Collection d'améthyste dans la région de Thunder Bay; photo avec la permission du ministère du Tourisme et des Loisirs.

Nota: La taxe sur les produits et services (TPS) de 7% s'applique à l'achat de publications. Assurez-vous de l'inclure dans votre paiement.

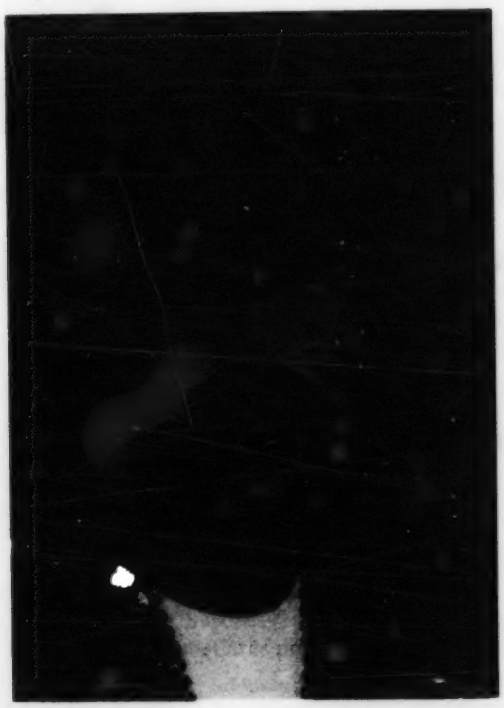
Message du ministre

Le centenaire de l'établissement du «Ontario Bureau of Mines», nous permet de jeter un regard rétrospectif sur les résutalts de nos efforts pour extirper de la Terre les trésors qu'elle recèle.

Au cours de dernier siècle, les études géologiques effectuées par le gouvernement ontarien ont alimenté 10 000 publications qui consistent à la fois d'études techniques approfondies à l'usage de l'industrie de la prospection minière et d'ouvrages d'intérêt général utiles aux enseignants, aux étudiants et aux amateurs de roches.

Ces précieuses sources de renseignements nous aident à mieux comprendre l'Ontario, province responsable de la production des deux tiers du nickel, de l'uranium et du sel au Canada; de près d'une demie de la production d'or et de ciment et d'un tiers des agrégats sable-gravier et du cuivre. En tout, l'Ontario produit plus de 30 minéraux différents et emploie plus de 80 000 hommes et femmes dans l'industrie minière et les industries de traitement connexes.

Les minéraux ont constitué un élément essentiel de notre développement socio-économique au cours des derniers 100 ans. L'édition de 1991 de Sources d'information sur les roches et les minéraux vous aidera à mieux tirer parti de notre riche patrimoine.



La ministre du Développement du Nord et des Mines,

Shelley Martel

Shelley Martel

Table des matières

Au sujet de "Sources d'information sur les roches et les minéraux" 1
Procédé de commande 1

La Division des mines et des minéraux 1
Introduction 1
Commission géologique de l'Ontario 1

Bureaux régionaux de la Division des mines et des minéraux 2

Direction de l'exploitation des minéraux et de la réhabilitation 3
Direction des terrains miniers 3
Bureau de planification et d'information 3

Index des rapports et des cartes 4
La Commission géologique du Canada 4

Sources de photographies aériennes et de cartes topographiques 4
Photographies aériennes 4
Cartes en transparents 5
Cartes topographiques 5
Cartes des claims miniers 5
Photos Landsat 5

Choix de cartes du gouvernement de l'Ontario 6
Géologie de l'Ontario 6
Cartes de la géologie 6

Choix de cartes de la Commission géologique du Canada 6

Publications d'intérêt général du ministère du Développement du Nord et des mines de l'Ontario 7

Publications de la Commission géologique du Canada sur la géologie et la collection des minéraux 7

24e congrès géologique international-livrets-guides 8

Rapport du gouvernement de l'Ontario sur les matières premières minérales 8

Publication du gouvernement de l'Ontario sur les politiques et les statistiques relatives aux minéraux 8

Énergie, Mines et Ressources Canada - Rapport sur les ressources minérales 9

Brochures et films-gouvernement 9
Ministère du Développement du Nord et des Mines de l'Ontario 9
Énergie, Mines et Ressources Canada 10
Ministère de l'Énergie et des Ressources du Québec 10
Musée Royal de l'Ontario 11

Science Nord 11
La Commission de l'Escarpement du Niagara 11
Institut national de recherche sur les eaux 11

Brochures et films - mines et métaux 11
Mines 11
Carrières 11
Aluminium 11
Cuivre 11
Cuivre et Zinc 11
Or 12
Sidérurgie 12
Nickel 12
Uranium 12

Brochures et films - matières premières minérales 12
Agrégats 12
Amiante 12
Charbon 13
Diamants 13
Gypse 13
Syénite néphélinique et silice 13
Pétrole et gaz naturel 13
Ciment Portland 13
Sable et gravier 13

Spécimens de roches et de minéraux 13

Marchands de pierres et de minéraux de l'Ontario 14
Marchands de Toronto et des environs 15

Clubs géoscientifiques en Ontario 16

Expositions des minéraux et fossiles de l'Ontario 17

Periodiques consacrés aux sciences de la Terre 18

Librairies 19

Au sujet de "Sources d'information sur les roches et les minéraux"

Cette brochure est publiée tous les ans par le ministère du Développement du Nord et des Mines, Division des mines et des minéraux, afin d'aider les usagers de nos services, qu'ils soient géologues dans l'industrie minière, enseignants ou minéralogistes amateurs, à trouver les renseignements dont ils ont besoin sur les roches et les minéraux de l'Ontario. En plus de présenter les publications du Ministere, elle énumère les comptes rendus et les cartes que l'on peut se procurer auprès du gouvernement fédéral, ainsi que les brochures et les films concernant la géologie, les mines, les métaux et les possibilités de carrière dans ces domaines, le matériel publicitaire produit par les compagnies minières, et enfin, les périodiques traitant des sciences de la Terre en général. Elle renferme egalement des listes de marchands de minéraux et de lapidaires, de clubs géoscientifiques et d'expositions de roches et de minéraux dans toute la province.

Les cartes reproduites dans cette brochure ont été établies aux échelles suivantes:

1/31 680	1 pouce pour 1/2 mille
1/63 360	1 pouce pour 1 mille
1/126 720	1 pouce pour 2 milles
1/253 440	1 pouce pour 4 milles
1/1 013 760	1 pouce pour 16 milles
1/1 584 000	1 pouce pour 25 milles
1/7 603 200	1 pouce pour 120 milles
1/50 000	1 cm pour 0,5 km
1/100 000	1 cm pour 1 km
1/250 000	1 cm pour 2.5 km
1/800 000	1 cm pour 8 km
1/1 000 000	1 cm pour 10 km
1/1 600 000	1 cm pour 16 km
1/2 000 000	1 cm pour 20 km
1/5 000 000	1 cm pour 50 km

PROCÉDÉ DE COMMANDE

Pour les publications de la Commission géologique de l'Ontario, adresser les commandes au:

Centre d'information, ministère des Richesses naturelles de l'Ontario, 1er étage, Bureau M1-73, édifice Macdonald, Queen's Park, 900, rue Bay, Toronto (Ontario) M7A 2C1. (416) 314-1666

Veuillez établir votre règlement à l'ordre du trésorier de l'Ontario.

Les publications épuisées peuvent être consultées dans la bibliothèque de votre localité ou au bureau du géologue résident approprié, et peuvent être fournies sur microfiche 42X moyennant un droit de 0,75 $ par titre, taxe non comprise, sur demande adressée au Bureau d'information du ministère des Richesses naturelles de l'Ontario. Les dossiers généraux sur microfiche coûtent 2,00 $ chacun plus la taxe.

Pour les publications de la Commission géologique du Canada, adresser les commandes à:

Commission géologique du Canada, 601, rue Booth, Ottawa (Ontario) K1A 0E8. (613) 995-4342.

Toute commande doit être accompagnée d'un chèque à l'ordre du Receveur général du Canada.

On accepte VISA et Mastercard.

Nota: La taxe sur les produits et services (TPS) de 7% s'applique à l'achat de publications. Assurez-vous de l'inclure dans votre paiememt. Les résidents de l'Ontario doivent également ajouter la taxe de vente provinciale de 8% pour l'achat de cartes.

La Division des mines et des minéraux

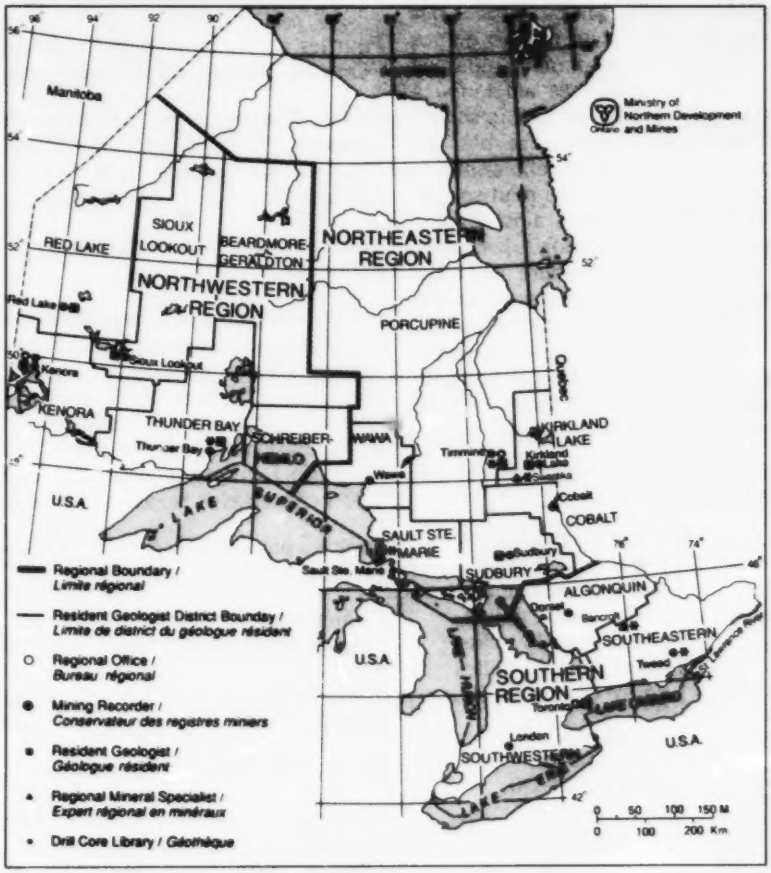
INTRODUCTION

La Division des mines et des minéraux du ministère du Développement du Nord et des Mines offre un programme de services à l'industrie de l'exploration et de la mise en valeur des ressources minières, au public et aux étudiants, par l'entremise de 17 bureaux couvrant l'ensemble de l'Ontario. Grâce à des programmes de coopération entre la Commission géologique de l'Ontario, la Direction de l'exploitation des minéraux et de la réhabilitation, et la Bureau de planification et d'information, l'analyse et l'interprétation de la géologie de la province sont assurées de manière efficace et divers services de consultation sont fournis.

COMMISSION GÉOLOGIQUE DE L'ONTARIO

Par l'entremise de la Direction des services géoscientifiques et la Direction des services à la clientèle, la Commission géologique de l'Ontario (CGO), fournit des renseignements sur la géologie et les ressources minérales de la province.

Bureaux régionaux de la Division des mines et des minéraux



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	■	Box 5200, 808 Robertson St. P9N 3X9	(807) 468-8492	(807) 468-9451
	✱	860 Fourth Ave. S. P9N 2A1	(807) 468-3658	—
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	■	Box 324, Ont. Govt. Bldg. P0V 2M0	(807) 727-3284	(870) 727-3553
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	■	Box 3000, OPP Bldg. P0V 2T0	(807) 737-2034	(807) 737-1727
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	■	435 James St. S. P7E 6E3	(807) 475-1311	(807) 475-5312
	✱	335 Euclid Ave. P7E 6G6	(807) 475-1331	—
Wawa	●	Box 530, Mine Rd. P0S 1K0	(705) 856-4883	(705) 856-4282
Sault Ste. Marie	● ■	875 Queen St. E. P6A 2B3	(705) 949-1231	(705) 949-0014
	✱	64 Church St. P6A 5L5	(705) 949-1231	—
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	✱	896 Riverside Dr. P4N 3W2	(705) 267-1401	—
Kirkland Lake	●	4 Government Rd. E. P2N 1A2	(705) 567-5242	(705) 567-5621
	■	4 Government Rd. E. P2N 1A2	(705) 567-9242	(705) 567-5621
Swastika	▲ ✱	Box 129 P0K 1T0	(705) 642-3222	(705) 642-3323
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Sudbury	●	2nd floor, 159 Cedar St. P3E 6A5	(705) 670-7325	(705) 670-7223
	■	2nd floor, 159 Cedar St. P3E 6A5	(705) 670-7321	(705) 670-7223
Dorset	●	Box 190 P0A 1E0	(705) 766-2494	(705) 766-9976
Tweed	● ✱	R.S. 43, Old Troy Rd. K0K 3J0	(613) 478-2330	(613) 478-6247
Bancroft	▲ ✱	Box 3000, Highway 28 K0L 1C0	(613) 332-4875	(613) 332-1800
Toronto	■	1st floor, 10 Wellesley St. E. M4Y 1G2	(416) 965-1322	(416) 963-0257
	○	1st floor, 10 Wellesley St. E. M4Y 1G2	(416) 965-3611	(416) 963-0257
London	●	Box 5463, 659 Exeter Rd. N6A 4L6	(519) 661-2773	(519) 661-2819

La Direction des services géoscientifiques est chargée de recueillir, d'étudier et d'interpréter les données géoscientifiques sur la géologie et les richesses minérales de l'Ontario. Cette information sert ensuite à stimuler et guider la prospection et l'exploitation des minéraux ainsi qu'à planifier l'utilisation des ressources en terres et en eau de la province. Les enquêtes menées par cette direction portent sur la géologie précambrienne, paléozoïque et de surface ainsi que sur la géophysique et la géochimie. On y offre également des services de laboratoire géoscientifique.

La Direction des services à la clientèle offre des services de consultation et d'information en géologie, de planification pour l'exploration et l'utilisation des ressources minérales afin d'attirer, de stimuler, guider et surveiller la prospection et l'exploitation des minéraux et sensibiliser davantage le public à la géologie et aux ressources minérales de l'Ontario. Cette direction s'occupe également de la publication et de la distribution de données techniques. Les publications géoscientifiques comprennent cartes définitives en couleur, cartes préliminaires en noir et blanc, feuillets d'information générale sur les activités de prospection, rapports accélérés imprimés sur demande ainsi que rapports, brochures et plaquettes variées. On gère aussi une bibliothèque d'ouvrages à consulter, y compris les évaluations des travaux effectués sur les claims. À partir du bureau des services à la clientèle de Toronto, la Direction administre des services régionaux dans 15 bureaux de géologues résidents et sept géothèques. Le personnel répond aux questions d'ordre général et renseigne l'industrie minière et le public sur un grand nombre de sujets: politiques sur les ressources minérales du gouvernement de l'Ontario, services ministériels, historique de l'exploitation minière et de la géologie de l'Ontario pour des projets scolaires. Archives de la géologie de subsurface, les géothèques, dont certaines entreposent jusqu'à 160 000 mètres de carottes de forage au diamant, sont ouvertes aux sociétés d'exploration voulant en examiner les échantillons.

Acheminez toute demande de renseignements à l'adresse suivante: **Bureau d'information géoscientifique, Commission géologique de l'Ontario, 8e étage, 77, rue Grenville, Toronto (Ontario) M7A 1W4 (416) 965-0190**

DIRECTION DE L'EXPLOITATION DES MINÉRAUX ET DE LA RÉHABILITATION

Cette direction promouvoit et facilite l'exploitation économiquement durable et soucieuse de l'environnement des ressources minérales de l'Ontario, y compris la remise en bon état des sites miniers. Les services s'étendent à l'exploitation, la promotion et la commercialisation des matières premières de l'Ontario.

Des primes d'encouragement sont versées aux prospecteurs et aux sociétés d'exploitation dans le cadre du Programme d'aide aux prospecteurs et du Programme d'encouragement à l'exploitation minière de l'Ontario afin de favoriser l'exploitation des ressources minérales de l'Ontario.

On veille à la mise en application de la législation et des règlements pertinents afin d'assurer que les sites miniers soient aménagés, exploités, démantelés et fermés d'une façon qui sauvegarde l'environnement et élimine les dangers au public.

Acheminez toute demande de renseignements à l'adresse suivante: **Direction de l'exploitation des minéraux et de la réhabilitation, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5 (705) 670-7250; sans frais 1-800-465-3880**

DIRECTION DES TERRAINS MINIERS

Cette direction participe à la formulation des lois et des politiques ayant trait aux droits miniers sur des terres de la Couronne.

Un réseau de neuf bureaux d'enregistrement minier offre de nombreux services dont la vente des permis de prospecteur, d'étiquettes et de cartes de claims et de publications sur la géologie régionale. Le personnel répond aux demandes de renseignements sur les baux miniers et l'acquisition des droits miniers et des titres. Les registrateurs reçoivent les demandes d'enregistrement de claims miniers et tranchent les disputes entre des particuliers qui réclament le titre au même terrain.

Acheminez toute demande de renseignements à l'adresse suivante: **Direction des terrains miniers, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5 (705) 670-7250; sans frais 1-800-465-3880**

BUREAU DE PLANIFICATION ET D'INFORMATION

Ce bureau maintient une banque de données complète sur l'industrie minière ontarienne et suit les tendances de la prospection et de l'exploitation des minéraux. Le document SCORE renferme des statistiques sur toutes les matières premières et les tendances qui s'y rapportent en Ontario.

On analyse les tendances afin de relever les dossiers éventuels relatifs aux minéraux et d'en prévenir le gouvernement de l'Ontario et l'industrie minière.

Acheminez toute demande de renseignements à l'adresse suivante: **Bureau de la planification et de l'information, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5 (705) 670-7250; sans frais 1-800-465-3880**

Index des rapports et des cartes

LA COMMISSION GÉOLOGIQUE DU CANADA

Envoyez les commandes à: Commission géologique du Canada, 601, rue Booth, Ottawa (Ontario) K1A 0E8
(613) 995-4342

Toute commande doit être accompagnée d'un chèque à l'ordre du Receveur général du Canada.

On accepte VISA et Mastercard.

INDEX DES PUBLICATIONS DE LA COMMISSION GÉOLOGIQUE DU CANADA 1959-1974. Prix 7 $.

INDEX DES PUBLICATIONS DE LA COMMISSION GÉOLOGIQUE DU CANADA 1975-1979. Prix 3,50 $.

INDEX DES PUBLICATIONS DE LA COMMISSION GÉOLOGIQUE DU CANADA 1980-1984. Prix 10 $.

INDEX DES PUBLICATIONS DE LA COMMISSION GÉOLOGIQUE DU CANADA 1984-1987. Prix 12 $.

LISTE DES PRIX DES RAPPORTS ET CARTES D'INTÉRÊT GÉNÉRAL, 1989, Gratuit.

DES CARTES DE LOCALISATION indiquant les limites des zones d'études géologiques en Ontario peuvent être obtenues gratuitement en s'adressant à la Commission géologique du Canada, comme suit:

Carte de localisation	Latitudes	Longitudes
30,40	42°-46°N	75°-83°O
31	44°-48°N	72°-80°O
32	48°-52°N	72°-80°O
41	44°-48°N	80°-88°O
42	48°-52°N	80°-88°O
52	48°-52°N	88°-96°O
43	52°-56°N	80°-88°O
53	52°-56°N	88°-96°O

Sources de photographies aériennes et de cartes topographiques

PHOTOGRAPHIES AÉRIENNES

Les photographies aériennes sont un excellent outil de prospection pour se repérer sur le terrain; pour localiser les affleurements; pour déterminer l'emplacement des caractéristiques structurelles, telles que failles, plis et dykes; pour repérer les zones de dépôts glaciaires; ou pour avoir une idée approximative des types de roches existants.

Envoyez les commandes au: 1-Centre d'information, Service de la photographie aérienne, ministère des Richesses naturelles de l'Ontario, 1er étage, Bureau M1-73, édifice Macdonald, Queen's Park, 900, rue Bay, Toronto (Ontario) M7A 2C1.
(416) 314-2001

Cet organisme ne vend des photos aériennes que pour l'Ontario. La couverture ne dépasse pas la latitude 53°N. Les photographies sont facturées à 3,85 $ la pièce plus 2,00 $ de frais d'expédition, le cas échéant. Les résidents de l'Ontario doivent ajouter une taxe de vente provinciale de 8%.

Envoyez les commandes a: 2-Photothèque nationale de l'air, Énergie, Mines et Ressources Canada, 615, rue Booth, Ottawa (Ontario) K1A 0E9.
tél. : (613) 995-4560
télécopieur: (613) 995-4568

Toute commande doit être accompagnée d'un chèque à l'ordre du Receveur général du Canada.

On accepte VISA et Mastercard.

Cet organisme vend des photos aériennes de toutes les régions du Canada à différentes échelles. Noir et blanc 4,55 $, couleur 10,45 $ plus taxe de vente provinciale et 4 $ de frais d'expédition, le cas échéant.

On peut se procurer les photos aériennes auprès des organismes ci-dessus en précisant la zone de couverture photographique, le lot, la concession, le canton et le district, ou en envoyant une carte délimitant clairement la zone recherchée. Veuillez indiquer si vous avez besoin d'une couverture stéréoscopique; vous serez avisé du coût avant expédition des photos. Il y a un chevauchement considérable entre photographies adjacentes lorsqu'il s'agit de couverture stéréoscopique. Si la couverture stéréoscopique n'est pas nécessaire, le nombre de photos peut être réduit d'environ 50%. Cependant, la

couverture stéréoscopique est utile: avec ce moyen, on obtient une vision du terrain en trois dimensions. On trouve dans le commerce des stéréoscopes de poche se vendant de 15 à 50 $.

CARTES EN TRANSPARENTS

Envoyez les commandes au: Bureau des cartes du Canada, 615, rue Booth, Ottawa (Ontario) K1A 0E9
tél.: (613) 952-7000
télécopieur: (613) 957-8861

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LA GESTION DES DÉCHETS CANADIENS DE COMBUSTIBLE NUCLÉAIRE, 1989

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[1, 2, 3, 4, 7]

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[1, 7, fossiles, roches polies]

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